

## WEST Search History





DATE: Friday, May 11, 2007

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR</i>	
<input type="checkbox"/>	L153	((extent or extents) with (pages or page) with (table or tables))	6
		<i>DB=PGPB,USPT,USOC; PLUR=NO; OP=OR</i>	
<input type="checkbox"/>	L152	((extent or extents) with (pages or page) with (table or tables))	93
<input type="checkbox"/>	L151	((extent or extents) near (pages or page) near (table or tables))	8
		<i>DB=PGPB; PLUR=NO; OP=OR</i>	
<input type="checkbox"/>	L150	L149 and (extent or extents)	1
<input type="checkbox"/>	L149	20050165798.pn.	1
		<i>DB=PGPB,USPT,USOC; PLUR=NO; OP=OR</i>	
<input type="checkbox"/>	L148	L147 and ((extent or extents) near page\$)	2
<input type="checkbox"/>	L147	(L143 or L144 or L145 or L146) and ((search\$ or quer\$ or request\$ or inquir\$ or enquir\$ or question\$) near (extent or extents))	95
<input type="checkbox"/>	L146	(707/104.1).ccls.	6200
<input type="checkbox"/>	L145	(707/100).ccls.	5276
<input type="checkbox"/>	L144	(707/5).ccls.	2348
<input type="checkbox"/>	L143	(707/1).ccls.	5683
<input type="checkbox"/>	L142	(L140 or L141) and (search\$ or quer\$ or request\$ or inquir\$ or enquir\$ or question)	92
<input type="checkbox"/>	L141	L139 and ((extent or extents) near page\$)	2
<input type="checkbox"/>	L140	L139 and ((database\$ or (data adj1 base\$)) with table\$)	93
<input type="checkbox"/>	L139	(L137 or L138) and (buffer adj1 cach\$)	258
<input type="checkbox"/>	L138	(707/200  707/201  707/202  707/203  707/204  707/205).ccls.	8307
<input type="checkbox"/>	L137	(707/2  707/3  707/4).ccls.	11408
<input type="checkbox"/>	L136	L135 and engine\$	28
<input type="checkbox"/>	L135	L134 and (search\$ or quer\$ or request\$ or inquir\$ or enquir\$ or question)	28
<input type="checkbox"/>	L134	L133 and (buffer adj1 cach\$)	28
<input type="checkbox"/>	L133	(database adj1 engine\$)	2722
<input type="checkbox"/>	L132	L131 and engine\$	1
<input type="checkbox"/>	L131	20030041214.pn.	1
<input type="checkbox"/>	L130	L129 and (engine\$ near (search\$ or quer\$ or request\$ or inquir\$ or enquir\$ or question\$))	36
<input type="checkbox"/>	L129	(buffer adj1 cach\$)	2517

101 763, 752

<input type="checkbox"/>	L128 L127 and (buffer near cach\$)	23
<input type="checkbox"/>	L127 L126 and (engine\$ near (search\$ or quer\$ or request\$ or inquir\$ or enquir\$ or question\$))	5049
<input type="checkbox"/>	L126 ((database\$ or (data adj1 base\$)) with table\$)	61868
<input type="checkbox"/>	L125 L124 and ((database\$ or (data adj1 base\$)) with table\$)	19
<input type="checkbox"/>	L124 L123 and cach\$	112
<input type="checkbox"/>	L123 L122 and (engine\$ near (search\$ or quer\$ or request\$ or inquir\$ or enquir\$ or question\$))	238
<input type="checkbox"/>	L122 ((extent or extents) with (page or pages))	3391
<input type="checkbox"/>	L121 L120 and (extent or extents)	4
<input type="checkbox"/>	L120 L118 and (buffer with cach\$)	19
<input type="checkbox"/>	L119 L118 and (buffer near cach\$)	1
<input type="checkbox"/>	L118 L117 and (engine\$ near (search\$ or quer\$ or request\$ or inquir\$ or enquir\$ or question\$))	1704
<input type="checkbox"/>	L117 (international adj1 business).asn.	68773
<input type="checkbox"/>	L116 2002198872.pn.	0
<input type="checkbox"/>	L115 2002198872.pn.	0
<input type="checkbox"/>	L114 L113 and (engine\$ near (search\$ or quer\$ or request\$ or inquir\$ or enquir\$ or question\$))	20
<input type="checkbox"/>	L113 ((extent or extents) near page\$)	223
<input type="checkbox"/>	L112 L103 and ((extent or extents) near page\$)	2
<input type="checkbox"/>	L111 L110 and page\$	11
<input type="checkbox"/>	L110 (L106 or L107) and ((database\$ or (data adj1 base\$)) with table\$)	12
<input type="checkbox"/>	L109 (L106 or L107) and (memory with (database\$ or (data adj1 base\$)) with table\$)	0
<input type="checkbox"/>	L108 L103 and (memory with (database\$ or (data adj1 base\$)) with table\$)	2
<input type="checkbox"/>	L107 L105 and (extent or extents).ab.	64
<input type="checkbox"/>	L106 L105 and (extent or extents).ti.	1
<input type="checkbox"/>	L105 (engine\$ near (search\$ or quer\$ or request\$ or inquir\$ or enquir\$ or question\$))	22777
<input type="checkbox"/>	L104 L103 and engine\$	1
<input type="checkbox"/>	L103 (buffer near cach\$ near (extent or extents))	2
<input type="checkbox"/>	L102 L92 and (search\$ or request\$ or inquir\$ or enquir\$ or question\$ or quer\$)	2
<input type="checkbox"/>	L101 L99 and page\$	1
<input type="checkbox"/>	L100 (L95 or L96 or L97) and engine\$	0
<input type="checkbox"/>	L99 L98 and engine\$	1
<input type="checkbox"/>	L98 L88 and ((search\$ or quer\$ or request\$ or inquir\$ or enquir\$ or question\$) near (extent or extents))	5
<input type="checkbox"/>	L97 L88 and ((extent or extents) same (buffer adj1 cach\$))	2
<input type="checkbox"/>	L96 L88 and ((extent or extents) with (buffer adj1 cach\$))	2
<input type="checkbox"/>	L95 L88 and ((extent or extents) near (buffer adj1 cach\$))	1

- ☐ L94 L88 and ((search\$ or quer\$ or request\$ or inquire\$ or enquire\$ or question\$) with (extent or extents) with (buffer adj1 cach\$)) 0
- ☐ L93 L92 and engine\$ 1
- ☐ L92 L91 and (memory with (database\$ or (data adj1 base\$)) with table\$) 2
- ☐ L91 L90 and (database\$ or (data adj1 base\$)) 6
- ☐ L90 ((buffer adj1 cache) with (extent or extents)) 11
- ☐ L89 ((buffer adj1 cache) near (extent or extents)) 2

*DB=USPT; PLUR=NO; OP=OR*

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297

*DB=PGPB,USPT,USOC; PLUR=NO; OP=OR*

L86 and ((search\$ or request\$ or inquire\$ or enquire\$ or question\$ or quer\$) with

<input type="checkbox"/>	L87 (extent or extents))	11
<input type="checkbox"/>	L86 L85 and (database\$ or (data adj1 base\$))	47
<input type="checkbox"/>	L85 ((table or tables) with (extent or extents) with (page or pages))	93
<input type="checkbox"/>	L84 ((database\$ or (data adj1 base\$)) with (table or tables) with (extent or extents) with (page or pages))	4
<input type="checkbox"/>	L83 L80 and L82	11
<input type="checkbox"/>	L82 ((re-order\$ or reorder\$) near (page or pages))	145
<input type="checkbox"/>	L81 ((re-order\$ or reorder\$) near (extent or extents))	21
<input type="checkbox"/>	L80 ((database\$ or (data adj1 base\$)) with (page or pages) with (quer\$ or search\$ or question\$ or inquire\$ or enquire\$ or request\$))	6887
<input type="checkbox"/>	L79 ((database\$ or (data adj1 base\$)) with (extent or extents) with (quer\$ or search\$ or question\$ or inquire\$ or enquire\$ or request\$) with (buffer adj1 cache))	1
<input type="checkbox"/>	L78 ((database\$ or (data adj1 base\$)) with (extent or extents) with (quer\$ or search\$ or question\$ or inquire\$ or enquire\$ or request\$))	340
<input type="checkbox"/>	L77 (L75 or L76) and (search\$ or quer\$ or request\$ or inquire\$ or enquire\$ or question)	92
<input type="checkbox"/>	L76 L74 and ((extent or extents) near page\$)	2
<input type="checkbox"/>	L75 L74 and ((database\$ or (data adj1 base\$)) with table\$)	93
<input type="checkbox"/>	L74 (L72 or L73) and (buffer adj1 cach\$)	258
<input type="checkbox"/>	L73 (707/200  707/201  707/202  707/203  707/204  707/205).ccls.	8307
<input type="checkbox"/>	L72 (707/2  707/3  707/4).ccls.	11408
<input type="checkbox"/>	L71 L70 and engine\$	28
<input type="checkbox"/>	L70 L69 and (search\$ or quer\$ or request\$ or inquire\$ or enquire\$ or question)	28
<input type="checkbox"/>	L69 L68 and (buffer adj1 cach\$)	28
<input type="checkbox"/>	L68 (database adj1 engine\$)	2722
<input type="checkbox"/>	L67 L66 and engine\$	1
<input type="checkbox"/>	L66 20030041214.pn.	1
<input type="checkbox"/>	L65 L64 and (engine\$ near (search\$ or quer\$ or request\$ or inquire\$ or enquire\$ or question\$))	36
<input type="checkbox"/>	L64 (buffer adj1 cach\$)	2517
<input type="checkbox"/>	L63 L62 and (buffer near cach\$)	23
<input type="checkbox"/>	L62 L61 and (engine\$ near (search\$ or quer\$ or request\$ or inquire\$ or enquire\$ or question\$))	5049
<input type="checkbox"/>	L61 ((database\$ or (data adj1 base\$)) with table\$)	61868
<input type="checkbox"/>	L60 L59 and ((database\$ or (data adj1 base\$)) with table\$)	19
<input type="checkbox"/>	L59 L58 and cach\$	112
<input type="checkbox"/>	L58 L57 and (engine\$ near (search\$ or quer\$ or request\$ or inquire\$ or enquire\$ or question\$))	238
<input type="checkbox"/>	L57 ((extent or extents) with (page or pages))	3391
<input type="checkbox"/>	L56 L55 and (extent or extents)	4
<input type="checkbox"/>	L55 L53 and (buffer with cach\$)	19

<input type="checkbox"/>	L54	L53 and (buffer near cach\$)	1
<input type="checkbox"/>	L53	L52 and (engine\$ near (search\$ or quer\$ or request\$ or inquir\$ or enquir\$ or question\$))	1704
<input type="checkbox"/>	L52	(international adj1 business).asn.	68773
<input type="checkbox"/>	L51	2002198872.pn.	0
<input type="checkbox"/>	L50	2002198872.pn.	0
<input type="checkbox"/>	L49	L48 and (engine\$ near (search\$ or quer\$ or request\$ or inquir\$ or enquir\$ or question\$))	20
<input type="checkbox"/>	L48	((extent or extents) near page\$)	223
<input type="checkbox"/>	L47	L38 and ((extent or extents) near page\$)	2
<input type="checkbox"/>	L46	L45 and page\$	11
<input type="checkbox"/>	L45	(L41 or L42) and ((database\$ or (data adj1 base\$)) with table\$)	12
<input type="checkbox"/>	L44	(L41 or L42) and (memory with (database\$ or (data adj1 base\$)) with table\$)	0
<input type="checkbox"/>	L43	L38 and (memory with (database\$ or (data adj1 base\$)) with table\$)	2
<input type="checkbox"/>	L42	L40 and (extent or extents).ab.	64
<input type="checkbox"/>	L41	L40 and (extent or extents).ti.	1
<input type="checkbox"/>	L40	(engine\$ near (search\$ or quer\$ or request\$ or inquir\$ or enquir\$ or question\$))	22777
<input type="checkbox"/>	L39	L38 and engine\$	1
<input type="checkbox"/>	L38	(buffer near cach\$ near (extent or extents))	2
<input type="checkbox"/>	L37	L27 and (search\$ or request\$ or inquir\$ or enquir\$ or question\$ or quer\$)	2
<input type="checkbox"/>	L36	L34 and page\$	1
<input type="checkbox"/>	L35	(L30 or L31 or L32) and engine\$	0
<input type="checkbox"/>	L34	L33 and engine\$	1
<input type="checkbox"/>	L33	L23 and ((search\$ or quer\$ or request\$ or inquir\$ or enquir\$ or question\$) near (extent or extents))	5
<input type="checkbox"/>	L32	L23 and ((extent or extents) same (buffer adj1 cach\$))	2
<input type="checkbox"/>	L31	L23 and ((extent or extents) with (buffer adj1 cach\$))	2
<input type="checkbox"/>	L30	L23 and ((extent or extents) near (buffer adj1 cach\$))	1
<input type="checkbox"/>	L29	L23 and ((search\$ or quer\$ or request\$ or inquir\$ or enquir\$ or question\$) with (extent or extents) with (buffer adj1 cach\$))	0
<input type="checkbox"/>	L28	L27 and engine\$	1
<input type="checkbox"/>	L27	L26 and (memory with (database\$ or (data adj1 base\$)) with table\$)	2
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<input type="checkbox"/>	L25	((buffer adj1 cache) with (extent or extents))	11
<input type="checkbox"/>	L24	((buffer adj1 cache) near (extent or extents))	2

DB=USPT; PLUR=NO; OP=OR

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□ L23

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<input type="checkbox"/>	L22	297
	DB=PGPB,USPT,USOC; PLUR=NO; OP=OR	
<input type="checkbox"/>	L21 L18 and L20	11
<input type="checkbox"/>	L20 ((re-order\$ or reorder\$) near (page or pages))	145
<input type="checkbox"/>	L19 ((re-order\$ or reorder\$) near (extent or extents))	21
<input type="checkbox"/>	L18 ((database\$ or (data adj1 base\$)) with (page or pages) with (quer\$ or search\$ or question\$ or inquir\$ or enquir\$ or request\$))	6887
<input type="checkbox"/>	L17 ((database\$ or (data adj1 base\$)) with (extent or extents) with (quer\$ or search\$ or question\$ or inquir\$ or enquir\$ or request\$) with (buffer adj1 cache))	1
<input type="checkbox"/>	L16 ((database\$ or (data adj1 base\$)) with (extent or extents) with (quer\$ or search\$ or question\$ or inquir\$ or enquir\$ or request\$))	340
	DB=USPT; PLUR=NO; OP=OR	
<input type="checkbox"/>	L15 L1 and (extent or extents)	67
<input type="checkbox"/>	L14 L13 and (extent or extents)	0
<input type="checkbox"/>	L13 L11 and ((buffer adj1 cache\$) near (extent or extents))	0
<input type="checkbox"/>	L12 L11 and ((buffer adj1 cache\$) with (extent or extents))	0
<input type="checkbox"/>	L11 L10 and ((search\$ or quer\$ or request\$ or inquir\$ or enquir\$ or question\$) with (extent or extents))	14
<input type="checkbox"/>	L10 L1 and (entent or extents)	28
<input type="checkbox"/>	L9 L8 and re-order\$	0
<input type="checkbox"/>	L8 L7 and engine	11
<input type="checkbox"/>	L7 L6 and (buffer adj1 cache)	17
<input type="checkbox"/>	L6 L1 and ((database\$ or (data adj1 base\$)) with table\$)	244
<input type="checkbox"/>	L5 L1 and extent\$	67

<input type="checkbox"/>	L4	L1 and ((database\$ or (data adj1 base\$)) with memory with engine with (quer\$ or search\$ or request\$ or inquire\$ or enquiry\$ or question\$))	20
<input type="checkbox"/>	L3	L1 and (buffer adj1 cache)	24
<input type="checkbox"/>	L2	L1 and ((buffer adj1 cache) with (database\$ or (data adj1 base\$)) with memory with engine with (quer\$ or search\$ or request\$ or inquire\$ or enquiry\$ or question\$))	0
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# 1 [Query evaluation techniques for large databases](#)



Goetz Graefe

 June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

 Full text available: [pdf\(9.37 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

**Keywords:** complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

# 2 [I/O reference behavior of production database workloads and the TPC benchmarks—](#)


[an analysis at the logical level](#)

Windsor W. Hsu, Alan Jay Smith, Honesty C. Young

 March 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(5.42 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As improvements in processor performance continue to far outpace improvements in storage performance, I/O is increasingly the bottleneck in computer systems, especially in large database systems that manage huge amounts of data. The key to achieving good I/O performance is to thoroughly understand its characteristics. In this article we present a comprehensive analysis of the logical I/O reference behavior of the peak production database workloads from ten of the world's largest corporatio ...

**Keywords:** I/O, TPC benchmarks, caching, locality, prefetching, production database workloads, reference behavior, sequentiality, workload characterization

10/763,752

 ACM Transactions on Database Systems, Operator: ...  
 Volume 26 Issue 1

### 3 B-tree concurrency control and recovery in page-server database systems



Ibrahim Jaluta, Seppo Sippu, Eljas Soisalon-Soininen

March 2006 **ACM Transactions on Database Systems (TODS)**, Volume 31 Issue 1

**Publisher:** ACM Press

Full text available: pdf(401.86 KB)

Additional Information: [full citation](#), [appendices and supplements](#),  
[abstract](#), [references](#), [index terms](#)

We develop new algorithms for the management of transactions in a page-shipping client-server database system in which the physical database is organized as a sparse B-tree index. Our starvation-free fine-grained locking protocol combines adaptive callbacks with key-range locking and guarantees repeatable-read-level isolation (i.e., serializability) for transactions containing any number of record insertions, record deletions, and key-range scans. Partial and total rollbacks of client transactio ...

**Keywords:** ARIES, ARIES/CSA, B-tree, cache consistency, callback locking, client-server database system, data shipping, key-range locking, page server, partial rollback, physiological logging, sparse B-tree, structure modification

### 4 Interaction of query evaluation and buffer management for information retrieval



Björn T. Jónsson, Michael J. Franklin, Divesh Srivastava

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2

**Publisher:** ACM Press

Full text available: pdf(1.81 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The proliferation of the World Wide Web has brought information retrieval (IR) techniques to the forefront of search technology. To the average computer user, "searching" now means using IR-based systems for finding information on the WWW or in other document collections. IR query evaluation methods and workloads differ significantly from those found in database systems. In this paper, we focus on three such differences. First, due to the inherent fuzziness of the natural language ...

### 5 Data page layouts for relational databases on deep memory hierarchies

Anastassia Ailamaki, David J. DeWitt, Mark D. Hill

November 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 3

**Publisher:** Springer-Verlag New York, Inc.

Full text available: pdf(593.86 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Relational database systems have traditionally optimized for I/O performance and organized records sequentially on disk pages using the N-ary Storage Model (NSM) (a.k.a., slotted pages). Recent research, however, indicates that cache utilization and performance is becoming increasingly important on modern platforms. In this paper, we first demonstrate that in-page data placement is the key to high cache performance and that NSM exhibits low cache utilization on modern platforms. Next, we ...

**Keywords:** Cache-conscious database systems, Disk page layout, Relational data placement

### 6 GPGPU: general purpose computation on graphics hardware



David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

**Publisher:** ACM PressFull text available:  pdf(63.03 MB) Additional Information: [full citation](#), [abstract](#), [citations](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

## 7 Implementing sorting in database systems



Goetz Graefe

September 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 3**Publisher:** ACM PressFull text available:  pdf(518.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Most commercial database systems do (or should) exploit many sorting techniques that are publicly known, but not readily available in the research literature. These techniques improve both sort performance on modern computer systems and the ability to adapt gracefully to resource fluctuations in multiuser operations. This survey collects many of these techniques for easy reference by students, researchers, and product developers. It covers in-memory sorting, disk-based external sorting, and cons ...

**Keywords:** Key normalization, asynchronous read-ahead, compression, dynamic memory resource allocation, forecasting, graceful degradation, index operations, key conditioning, nested iteration

## 8 An analysis of database workload performance on simultaneous multithreaded processors



Jack L. Lo, Luiz André Barroso, Susan J. Eggers, Kourosh Gharachorloo, Henry M. Levy, Sujay S. Parekh

April 1998 **ACM SIGARCH Computer Architecture News , Proceedings of the 25th annual international symposium on Computer architecture ISCA '98**, Volume 26 Issue 3**Publisher:** IEEE Computer Society, ACM PressFull text available:  pdf(1.57 MB)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
[Publisher Site](#)

Simultaneous multithreading (SMT) is an architectural technique in which the processor issues multiple instructions from multiple threads each cycle. While SMT has been shown to be effective on scientific workloads, its performance on database systems is still an open question. In particular, database systems have poor cache performance, and the addition of multithreading has the potential to exacerbate cache conflicts. This paper examines database performance on SMT processors using traces of th ...

## 9 Performance enhancements to a relational database system



Michael Stonebraker, John Woodfill, Jeff Ranzstrom, Marguerite Murphy, Marc Meyer, Eric Allman

June 1983 **ACM Transactions on Database Systems (TODS)**, Volume 8 Issue 2**Publisher:** ACM PressFull text available:  pdf(1.33 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we examine four performance enhancements to a database management system: dynamic compilation, microcoded routines, a special-purpose file system, and a special-purpose operating system. All were examined in the context of the INGRES

database management system. Benchmark timings that are included suggest the attractiveness of dynamic compilation and a special-purpose file system. Microcode and a special-purpose operating system are analyzed and appear to be of more limited utility ...

**Keywords:** compiled query languages, database performance, file systems for databases, microcode

10 Computing curricula 2001



September 2001 **Journal on Educational Resources in Computing (JERIC)**

**Publisher:** ACM Press

Full text available: pdf(613.63 KB)

html(2.78 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Industrial session: potpourri: Getting priorities straight: improving Linux support for database I/O

Christoffer Hall, Philippe Bonnet

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

**Publisher:** VLDB Endowment

Full text available: pdf(349.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Linux 2.6 kernel supports asynchronous I/O as a result of propositions from the database industry. This is a positive evolution but is it a panacea? In the context of the Badger project, a collaboration between MySQL AB and University of Copenhagen, we evaluate how MySQL/InnoDB can best take advantage of Linux asynchronous I/O and how Linux can help MySQL/InnoDB best take advantage of the underlying I/O bandwidth. This is a crucial problem for the increasing number of MySQL servers deployed ...

12 Functional-join processing

R. Braumandl, J. Claussen, A. Kemper, D. Kossmann

February 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 3-4

**Publisher:** Springer-Verlag New York, Inc.

Full text available: pdf(486.22 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Inter-object references are one of the key concepts of object-relational and object-oriented database systems. In this work, we investigate alternative techniques to implement inter-object references and make the best use of them in query processing, i.e., in evaluating functional joins. We will give a comprehensive overview and performance evaluation of all known techniques for simple (single-valued) as well as multi-valued functional joins. Furthermore, we will describe special *order-preserving* ...

**Keywords:** *Functional join, Logical OID, Object identifier, Order-preserving join, Physical OID, Pointer join, Query processing*

13 Accurate modeling of the hybrid hash join algorithm



Jignesh M. Patel, Michael J. Carey, Mary K. Vernon

May 1994 **ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1994 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '94**, Volume 22 Issue 1

**Publisher:** ACM Press

Full text available: pdf(1.38 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

terms

The join of two relations is an important operation in database systems. It occurs frequently in relational queries, and join performance is a significant factor in overall system performance. Cost models for join algorithms are used by query optimizers to choose efficient query execution strategies. This paper presents an efficient analytical model of an important join method, the hybrid hash join algorithm, that captures several key features of the algorithm's performance—including ...

14 Join algorithm costs revisited

Evan P. Harris, Kotagiri Ramamohanarao

January 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 1**Publisher:** Springer-Verlag New York, Inc.Full text available:  pdf(329.00 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

A method of analysing join algorithms based upon the time required to access, transfer and perform the relevant CPU-based operations on a disk page is proposed. The costs of variations of several of the standard join algorithms, including nested block, sort-merge, GRACE hash and hybrid hash, are presented. For a given total buffer size, the cost of these join algorithms depends on the parts of the buffer allocated for each purpose. For example, when joining two relations using the nested block j ...

**Keywords:** Join algorithms, Minimisation, Optimal buffer allocation15 External memory algorithms and data structures: dealing with massive data

Jeffrey Scott Vitter

June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2**Publisher:** ACM PressFull text available:  pdf(828.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

**Keywords:** B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting16 The state of the art in distributed query processing

Donald Kossmann

December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4**Publisher:** ACM PressFull text available:  pdf(455.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Distributed data processing is becoming a reality. Businesses want to do it for many reasons, and they often must do it in order to stay competitive. While much of the infrastructure for distributed data processing is already there (e.g., modern network technology), a number of issues make distributed data processing still a complex undertaking: (1) distributed systems can become very large, involving thousands of heterogeneous sites including PCs and mainframe server machines; (2) the stat ...

**Keywords:** caching, client-server databases, database application systems, dissemination-based information systems, economic models for query processing, middleware, multitier architectures, query execution, query optimization, replication, wrappers

17 Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona



Thomas Haigh  
January 2006 **ACM Oral History interviews**

**Publisher:** ACM Press

Full text available: [pdf\(761.66 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during World War II. After his discharge from the military, Bachman earned a B.Sc. in Mechanical Engineering in 1948, followed immediately by an M.Sc. in the same discipline, from the University of Pennsylvania. On graduation, he went to work for Do ...

18 Invited Tutorial 1: Context-sensitive program analysis as database queries



Monica S. Lam, John Whaley, V. Benjamin Livshits, Michael C. Martin, Dzintars Avots, Michael Carbin, Christopher Unkel

June 2005 **Proceedings of the twenty-fourth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '05**

**Publisher:** ACM Press

Full text available: [pdf\(183.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Program analysis has been increasingly used in software engineering tasks such as auditing programs for security vulnerabilities and finding errors in general. Such tools often require analyses much more sophisticated than those traditionally used in compiler optimizations. In particular, context-sensitive pointer alias information is a prerequisite for any sound and precise analysis that reasons about uses of heap objects in a program. Context-sensitive analysis is challenging because ...

19 Performance evaluation of linux file systems for data warehousing workloads



Peter Wai Yee Wong, Ric Hendrickson, Haider Rizvi, Steve Pratt  
May 2006 **Proceedings of the 1st international conference on Scalable information systems InfoScale '06**

**Publisher:** ACM Press

Full text available: [pdf\(114.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Many database users store data on raw or block devices for performance reasons, since file caching and file locking by the file system can be bypassed. However, many database users would prefer to use file systems for the ease of long-term maintenance. To our knowledge, there have not been any major efforts to systematically assess the performance of Linux file systems for database workloads. In this paper, we present our initial performance study on data warehousing systems. We first provide a ...

20 Distributed file systems: concepts and examples



Eliezer Levy, Abraham Silberschatz  
December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(5.33 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The purpose of a distributed file system (DFS) is to allow users of physically distributed

computers to share data and storage resources by using a common file system. A typical configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and con ...

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B Agarwal - US Patent 5,822,749, 1998 - Google Patents

... is the strategy 55 employed for "buffer reuse." Here ... inefficient to "wipe out" **cache**—filling **cache** memory with ... can be disabled from the SQL **query**, if desired. ...

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DS Rubin, B Agarwal - US Patent 5,812,996, 1998 - Google Patents

... the perspective of communication between a **Buffer Manager** and ... modeling the probability

of a **cache** "hit." FIG ... ronment where optimization of **query** performance is ...

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LA Barroso, K Gharachorloo, E Bugnion - ACM SIGARCH Computer Architecture News, 1998 - doi.ieeeecs.org

... resident, and the block size in the block **buffer cache** is set ... DSS workload uses a 500MB TPC-D **database**, with the ... up the SGA by running a given **query** at least ...

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L1 D-cache L2 **cache** Size 128KB ... Our DSS workload is based on **query** 6 of the TPC ...

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S2	67	BUFFER (W) CACHE
S3	11	S2 AND (DATABASE? OR (DATA (W) BASE?))
S4	0	S3 AND TABLE?
S5	0	S3 AND PAGE?
S6	0	S3 AND EXTENT?
S7	5	S3 AND (QUER? OR INQUIR\$ OR ENQUIR\$ OR REQUEST? OR SEARCH?)

? t s7/full/1-5

Dialog eLink:

open url

7/9/1

DIALOG(R)File 8: Ei Compendex(R)

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11035032 E.I. No: EIP06219900054

**Title:** Offloading bloom filter operations to network processor for parallel query processing in cluster of workstations

**Author:** Kumar, V. Santhosh; Thazhuthaveetil, M.J.; Govindarajan, R.

**Corporate Source:** Supercomputer Education and Research Centre Indian Institute of Science, Bangalore 560 012, India

**Conference Title:** 12th International Conference on High Performance Computing, HiPC 2005

**Conference Location:** Goa, India **Conference Date:** 20051218-20051221

**E.I. Conference No.:** 67330

**Source:** Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) High Performance Computing, HiPC 2005 - 12th International Conference, Proceedings v 3769 LNCS 2005.

**Publication Year:** 2005

**ISSN:** 0302-9743 **eISSN:** 1611-3349

**Language:** English

**Document Type:** CA; (Conference Article) **Treatment:** T; (Theoretical)

**Journal Announcement:** 0606W1

**Abstract:** Workstation clusters have high performance interconnects with programmable network processors, which facilitate interesting opportunities to offload certain application specific computation on them and hence enhance the performance of the parallel application. Our earlier work in this direction achieves enhanced performance and balanced utilization of resources by exploiting the programmable features of the network interface in parallel database query execution. In this paper, we extend our earlier work for studying parallel query execution with Bloom filters. We propose and evaluate a scheme to offload the Bloom filter operations to the network processor. Further we explore offloading certain tuple processing activities on to the network processor by adopting a network interface attached disk scheme. The above schemes yield a speedup of up to 1.13 over the base scheme with Bloom filter where all processing is done by the host processor and achieve balanced utilization of resources. In the presence of a disk buffer cache, which reduces both the disk and I/O traffic, offloading schemes improve the speedup to 1.24. copy Springer-Verlag Berlin Heidelberg 2005. 17 Refs.

**Descriptors:** \*Parallel processing systems; Query languages; Database systems; Computer workstations; Resource allocation; Computation theory; Adaptive filtering; Buffer storage

10/16/2007

**Identifiers:** Parallel query processing; Bloom filter; Application specific computation; Parallel database

**Classification Codes:**

723.1.1 (Computer Programming Languages)  
 722.4 (Digital Computers & Systems); 723.1 (Computer Programming); 723.3 (Database Systems);  
 912.2 (Management); 721.1 (Computer Theory (Includes Formal Logic, Automata Theory, Switching  
 Theory & Programming Theory)); 731.1 (Control Systems); 722.1 (Data Storage, Equipment &  
 Techniques)  
 722 (Computer Hardware); 723 (Computer Software, Data Handling & Applications); 912 (Industrial  
 Engineering & Management); 721 (Computer Circuits & Logic Elements); 731 (Automatic Control  
 Principles & Applications)  
 72 (COMPUTERS & DATA PROCESSING); 91 (ENGINEERING MANAGEMENT); 73 (CONTROL  
 ENGINEERING)

7/9/2

DIALOG(R)File 8: Ei Compendex(R)

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10739954 E.I. No: EIP05489515536

**Title:** Proceedings - 25th IEEE International Conference on Distributed Computing Systems

**Author:** Anon (Ed.)

**Conference Title:** 25th IEEE International Conference on Distributed Computing Systems

**Conference Location:** Columbus, OH, United States **Conference Date:** 20050606-20050610

**Sponsor:** IEEE Comput. Soc. Technical Committee on Distributed Processing

**E.I. Conference No.:** 66067

**Source:** Proceedings - International Conference on Distributed Computing Systems Proceedings - 25th  
 IEEE International Conference on Distributed Computing Systems 2005. (IEEE cat n P2331)

**Publication Year:** 2005

**CODEN:** PICSEJ

**Language:** English

**Document Type:** CP; (Conference Review) **Treatment:** T; (Theoretical)

**Journal Announcement:** 0512W2

**Abstract:** The proceedings contain 75 papers from the 25th IEEE International Conference on  
 Distributed Computing. The topics discussed include: MNP: multihop network reprogramming service  
 for sensor networks; the impossibility of boosting distributed service resilience; adaptive collaboration  
 in peer-to-peer systems; topk queries across multiple private databases; network-centric buffer cache  
 organization; adaptive counting networks; robust information dissemination in uncooperative  
 environments; a spatiotemporal query service for mobile users in sensor networks; timer interaction in  
 route flap damping; on flow marketing attacks in wireless anonymous communication networks; and  
 semi-probabilistic content-based publish-subscribe. (Edited abstract)

**Descriptors:** \*Distributed computer systems; Computer programming; Telecommunication services;  
 Sensors; Information dissemination; Query languages; Cache memory

**Identifiers:** Multihop network; Sensor networks; Query service; Cache organizations

**Classification Codes:**

723.1.1 (Computer Programming Languages)  
 722.4 (Digital Computers & Systems); 723.1 (Computer Programming); 732.2 (Control  
 Instrumentation); 903.2 (Information Dissemination); 722.1 (Data Storage, Equipment & Techniques)  
 722 (Computer Hardware); 723 (Computer Software, Data Handling & Applications); 716 (Electronic  
 Equipment, Radar, Radio & Television); 732 (Control Devices); 903 (Information Science)

72 (COMPUTERS & DATA PROCESSING); 71 (ELECTRONICS & COMMUNICATION ENGINEERING); 73 (CONTROL ENGINEERING); 90 (ENGINEERING, GENERAL)

7/9/3

DIALOG(R)File 8: Ei Compendex(R)

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10188019 E.I. No: EIP04538751174

**Title: Adaptive read-ahead and buffer management for multimedia systems**

**Author:** Kim, Kyung-Ho; Lim, Seung-Ho; Park, Kyu-Ho

**Corporate Source:** Computer Engineering Research Lab. EECS Korea Adv. Inst. Sci. and Technol., Taejeon, South Korea

**Conference Title:** Proceedings of the Eighth IASTED International Conference on Internet and Multimedia Systems and Applications

**Conference Location:** Kauai, HI, United States **Conference Date:** 20040816-20040818

**Sponsor:** IASTED, TCWIM

**E.I. Conference No.:** 64050

**Source:** Proceedings of the Eighth IASTED International Conference on Internet and Multimedia Systems and Applications Proceedings of the Eighth IASTED International Conference on Internet and Multimedia Systems and Applications 2004.

**Publication Year:** 2004

**ISBN:** 0889864284

**Language:** English

**Document Type:** CA; (Conference Article) **Treatment:** T; (Theoretical)

**Journal Announcement:** 0501W1

**Abstract:** Multimedia systems support the storage and retrieval of heterogeneous types of data, ranging from static data files to large video streaming files. Accordingly, a multimedia server must provide not only fast retrieval of small, static data files, but must also guarantee the bandwidth for video streaming files. To enable guaranteed service for these systems, we focus on improving the coordinated read-ahead mechanism and buffer management, with consideration given to requested data types and the needs of I/Ointensive applications. We classify data requests into two types: one for fast response, the other for guaranteed bandwidth. The read-ahead size is then dynamically adjusted for the streaming file, by monitoring the consumption time and the disk I/O time for its request. Additionally, we manage the buffer cache efficiently for its data type. Compared to a conventional file server, our file server shows a 14% faster average response time for static data requests, while guaranteeing the bandwidth of video streaming requests. 15 Refs.

**Descriptors:** \*Multimedia systems; Bandwidth; Information retrieval; Broadcasting; Data storage equipment; Database systems; Servers; Computer operating systems; Real time systems; Constraint theory; Electronic mail; Optimization

**Identifiers:** Multimedia data; File servers; Read-ahead; Buffer management

**Classification Codes:**

723.5 (Computer Applications); 716.1 (Information & Communication Theory); 903.3 (Information Retrieval & Use); 716.3 (Radio Systems & Equipment); 722.1 (Data Storage, Equipment & Techniques); 723.3 (Database Systems); 722.4 (Digital Computers & Systems); 721.1 (Computer Theory (Includes Formal Logic, Automata Theory, Switching Theory & Programming Theory)); 921.5 (Optimization Techniques)

723 (Computer Software, Data Handling & Applications); 716 (Electronic Equipment, Radar, Radio & Television); 903 (Information Science); 722 (Computer Hardware); 721 (Computer Circuits & Logic Elements); 921 (Applied Mathematics)

72 (COMPUTERS & DATA PROCESSING); 71 (ELECTRONICS & COMMUNICATION ENGINEERING); 90 (ENGINEERING, GENERAL); 92 (ENGINEERING MATHEMATICS)

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7/9/4

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09932116 E.I. No: EIP04288256533

**Title: Second-level buffer cache management**

**Author:** Zhou, Yuanyuan; Chen, Zhifeng; Li, Kai

**Corporate Source:** Department of Computer Science University of Illinois, Urbana-Champaign, IL 61801, United States

**Source:** IEEE Transactions on Parallel and Distributed Systems v 15 n 6 June 2004. p 505-519

**Publication Year:** 2004

**CODEN:** ITDSEO **ISSN:** 1045-9219

**Language:** English

**Document Type:** JA; (Journal Article) **Treatment:** T; (Theoretical)

**Journal Announcement:** 0407W2

**Abstract:** Buffer caches are commonly used in servers to reduce the number of slow disk accesses or network messages. These buffer caches form a multilevel buffer cache hierarchy. In such a hierarchy, second-level buffer caches have different access patterns from first-level buffer caches because accesses to a second-level are actually misses from a first-level. Therefore, commonly used cache management algorithms such as the Least Recently Used (LRU) replacement algorithm that work well for single-level buffer caches may not work well for second-level. This paper investigates multiple approaches to effectively manage second-level buffer caches. In particular, it reports our research results in 1) second-level buffer cache access pattern characterization, 2) a new local algorithm called Multi-Queue (MQ) that performs better than nine tested alternative algorithms for second-level buffer caches, 3) a set of global algorithms that manage a multilevel buffer cache hierarchy globally and significantly improve second-level buffer cache hit ratios over corresponding local algorithms, and 4) implementation and evaluation of these algorithms in a real storage system connected with commercial database servers (Microsoft SQL Server and Oracle) running industrial-strength online transaction processing benchmarks. 51 Refs.

**Descriptors:** \*Buffer storage; Servers; Algorithms; Database systems; Query languages; Real time systems; Online systems

**Identifiers:** Buffer cache management; Cache management algorithm; Alternative algorithms

**Classification Codes:**

722.1 (Data Storage, Equipment & Techniques); 921.6 (Numerical Methods); 723.3 (Database Systems); 722.4 (Digital Computers & Systems)

722 (Computer Hardware); 921 (Applied Mathematics); 723 (Computer Software, Data Handling & Applications)

72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

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08849265 E.I. No: EIP01276569906

**Title:** Towards application/file-level characterization of block references: A case for fine-grained buffer management

**Author:** Choi, J.; Noh, S.H.; Min, S.L.; Cho, Y.

**Corporate Source:** Sch. of Computer Science and Eng. Seoul National University, Seoul 151-742, South Korea

**Conference Title:** Proceedings ACM SIGMETRICS 2000

**Conference Location:** Santa Clara, CA, United States **Conference Date:** 20000617-20000621

**Sponsor:** ACM SIGMETRICS

**E.I. Conference No.:** 58153

**Source:** Performance Evaluation Review v 28 n 1 2000. p 286-295

**Publication Year:** 2000

**CODEN:** PEREDN **ISSN:** 0163-5999

**Language:** English

**Document Type:** CA; (Conference Article) **Treatment:** A; (Applications)

**Journal Announcement:** 0107W1

**Abstract:** Two contributions are made in this paper. First, we show that system level characterization of file block references is inadequate for maximizing buffer cache performance. We show that a finer-grained characterization approach is needed. Though application level characterization methods have been proposed, this is the first attempt, to the best of our knowledge, to consider file level characterizations. We propose an Application/File-level Characterization (AFC) scheme where we detect on-line the reference characteristics at the application level and then at the file level, if necessary. The results of this characterization are used to employ appropriate replacement policies in the buffer cache to maximize performance. The second contribution is in proposing an efficient and fair buffer allocation scheme. Application or file level resource management is infeasible unless there exists an allocation scheme that is efficient and fair. We propose the DeltaHIT allocation scheme that takes away a block from the application/file where the removal results in the smallest reduction in the number of expected buffer cache hits. Both the AFC and DeltaHIT schemes are on-line schemes that detect and allocate as applications execute. Experiments using trace-driven simulations show that substantial performance improvements can be made. For single application executions the hit ratio increased an average of 13 percentage points compared to the LRU policy, with a maximum increase of 59 percentage points, while for multiple application executions, the increase is an average of 12 percentage points, with a maximum of 32 percentage points for the workloads considered. 18 Refs.

**Descriptors:** \*Online systems; File organization; Storage allocation (computer); Buffer storage; Cache memory; Computer simulation; Multiprogramming; Query languages; Program compilers; UNIX; C (programming language); Relational database systems

**Identifiers:** Application file level characterization; Block references; Fine grained buffer management; Trace driven simulation

**Classification Codes:**

723.1.1 (Computer Programming Languages)

722.4 (Digital Computers & Systems); 723.3 (Database Systems); 722.1 (Data Storage, Equipment & Techniques); 723.5 (Computer Applications) ; 723.1 (Computer Programming)

722 (Computer Hardware); 723 (Computer Software, Data Handling & Applications)

72 (COMPUTERS & DATA PROCESSING)

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Set	Items	Description
S1	172107	(DATABASE? OR (DATA (W) BASE?))
S2	3308	S1 AND PAGE?
S3	154	S2 AND TABLE?
S4	0	S3 AND EXTENT?
S5	38	S3 AND QUER?
S6	0	S5 AND BUFFER (W) CACH?
S7	0	S5 AND BUFFER?

? t s5/medium/1-38

5/3/1

DIALOG(R)File 2: INSPEC

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09969288

**Title:** Multi-thread processing of long aggregates lists

**Author** Gorawski, M.; Malczok, R.

**Author Affiliation:** Inst. of Comput. Sci., Silesian Univ. of Technol., Gliwice, Poland

**Conference Title:** Parallel Processing and Applied Mathematics. 6th International Conference, PPAM 2005. Revised Selected Papers (Lecture Notes in Computer Science Vol.3911) p. 59-66

**Editor(s):** Wyrzykowski, R.; Dongarra, J.; Meyer, N.; Wasniewski, J.

**Publisher:** Springer-Verlag, Berlin, Germany

**Publication Date:** 2006 **Country of Publication:** Germany xxiii+1126 pp.

**ISBN:** 3 540 34141 2 **Material Identity Number:** XX-2006-00679

**Conference Title:** Parallel Processing and Applied Mathematics. 6th International Conference, PPAM 2005. Revised Selected Papers

**Conference Date:** 11-14 Sept. 2005 **Conference Location:** Poznan, Poland

**Language:** English

**Subfile:** C

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DIALOG(R)File 2: INSPEC

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09792213

**Title:** Overhauling an e-journal links-management application

**Author** Metcalf, C.

**Author Affiliation:** Libr. Network-Syst., Ottawa Univ., Ont., Canada

**Journal:** Serials Librarian vol.49, no.1-2 p. 25-33

**Publisher:** Haworth Press,

**Publication Date:** 2005 **Country of Publication:** USA

**CODEN:** SELID4 **ISSN:** 0361-526X

**SICI:** 0361-526X(2005)49:1/2L.25:OJLM;1-M

**Material Identity Number:** D670-2005-006

**Language:** English  
**Subfile:** C  
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DIALOG(R)File 2: INSPEC

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09602680 **INSPEC Abstract Number:** C2005-11-6170K-067

**Title:** Automating the extraction of data from HTML tables with unknown structure

**Author** Embley, D.W.; Cui Tao; Liddle, S.W.

**Author Affiliation:** Dept. of Comput. Sci., Brigham Young Univ., Provo, UT, USA

**Journal:** Data & Knowledge Engineering vol.54, no.1 p. 3-28

**Publisher:** Elsevier ,

**Publication Date:** July 2005 **Country of Publication:** Netherlands

**CODEN:** DKENEW **ISSN:** 0169-023X

**SICI:** 0169-023X(200507)54:1L3:AEDF;1-3

**Material Identity Number:** J515-2005-008

**Language:** English

**Subfile:** C

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DIALOG(R)File 2: INSPEC

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09305579 **INSPEC Abstract Number:** A2005-07-9365-153, C2005-04-7340-109

**Title:** Standard format design and input realization of measured spectral data in the spectral knowledge base

**Author** Fu Ying-Ying; Liu Su-Hong; Yu Sheng-Quan; Tian Zhen-Kun

**Author Affiliation:** Dept. of Math., Beijing Normal Univ., China

**Conference Title:** IGARSS 2004. 2004 IEEE International Geoscience and Remote Sensing (IEEE Cat. No.04CH37612) **Part** vol.7 p. 4444-7 vol.7

**Publisher:** IEEE , Piscataway, NJ, USA

**Publication Date:** 2004 **Country of Publication:** USA 7 vol. (cviii+4896) pp.

**ISBN:** 0 7803 8742 2 **Material Identity Number:** XX-2004-02737

**U.S. Copyright Clearance Center Code:** 0 7803 8742 2/2004/\$20.00

**Conference Title:** IGARSS 2004. 2004 IEEE International Geoscience and Remote Sensing

**Conference Date:** 20-24 Sept. 2004 **Conference Location:** Anchorage, AK, USA

**Language:** English

**Subfile:** A C

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DIALOG(R)File 2: INSPEC

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09169835 **INSPEC Abstract Number:** C2004-12-7330-603

**Title:** EcMLST: an online database for multi locus sequence typing of pathogenic *Escherichia coli*

**Author** Weihong Qi; Lacher, D.W.; Bumbaugh, A.C.; Hyma, K.E.; Ouellette, L.M.; Large, T.M.; Tarr, C.L.; Whittam, T.S.

**Author Affiliation:** Microbial Evolution Lab., Michigan State Univ., East Lansing, MI, USA

**Conference Title:** Proceedings. 2004 IEEE Computational Systems Bioinformatics Conference p. 520-1

**Publisher:** IEEE Comput. Soc , Los Alamitos, CA, USA

**Publication Date:** 2004 **Country of Publication:** USA xix+756 pp.

**ISBN:** 0 7695 2194 0 **Material Identity Number:** XX-2004-02032

**U.S. Copyright Clearance Center Code:** 7695-2194/04\$20.00

**Conference Title:** Proceedings. 2004 IEEE Computational Systems Bioinformatics Conference

**Conference Date:** 16-19 Aug. 2004 **Conference Location:** Stanford, CA, USA

**Language:** English

**Subfile:** C

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DIALOG(R)File 2: INSPEC

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09159348 **INSPEC Abstract Number:** C2004-12-6160D-004

**Title:** The DataWeb system for exporting relational databases on the World Wide Web

**Author** Albert, J.; Bian, L.-F.; Gomatam, H.; Shuang Li

**Author Affiliation:** Dept. of Comput. Sci., Portland State Univ., OR, USA

**Conference Title:** 6th World Multiconference on Systemics, Cybernetics and Informatics. Proceedings

Part vol.11 p. 494-9 vol.11

**Editor(s):** Callaos, N.; Hernandez-Encinas, L.; Yetim, F.

**Publisher:** Int. Inst. Inf. & Syst , Orlando, FL, USA

**Publication Date:** 2002 **Country of Publication:** USA 21 vol.

(vii+516+513+428+484+488+490+536+551+545+605+588+573+609+376+581+553+568+563+174+343+328) pp.

**ISBN:** 980 07 8150 1 **Material Identity Number:** XX-2003-02521

**Conference Title:** 6th World Multiconference on Systemics, Cybernetics and Informatics

**Conference Date:** 14-18 July 2002 **Conference Location:** Orlando, FL, USA

**Language:** English

**Subfile:** C

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DIALOG(R)File 2: INSPEC

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08979195 **INSPEC Abstract Number:** C2004-07-7210L-019

**Title:** The making of the PolyU course scheme database as one of the digitization initiatives of the Pao Yue-kong Library of the Hong Kong Polytechnic University

**Author** Chau, C.

**Author Affiliation:** Pao Yue-kong Libr., Hong Kong Polytech. Univ., China

**Conference Title:** Digital Libraries: Technology and Management of Indigenous Knowledge for Global Access. 6th International Conference on Asian Digital Libraries, ICADL 2003. Proceedings (Lecture Notes in Comput. Sci. Vol. 2911) p. 697-8

**Editor(s):** Sembok, T.M.T.; Zaman, H.B.; Chen, H.; Urs, S.R.; Myaeng, S.H.

**Publisher:** Springer-Verlag, Berlin, Germany

**Publication Date:** 2003 **Country of Publication:** Germany xx+703 pp.

**ISBN:** 3 540 20608 6 **Material Identity Number:** XX-2003-03566

**Conference Title:** Digital Libraries: Technology and Management of Indigenous Knowledge for Global Access. 6th International Conference on Asian Digital Libraries, ICADL 2003. Proceedings

**Conference Date:** 8-12 Dec. 2003 **Conference Location:** Kuala Lumpur, Malaysia

**Language:** English

**Subfile:** C

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DIALOG(R)File 2: INSPEC

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08701204 **INSPEC Abstract Number:** C2003-09-7250R-008

**Title:** The data alchemists

**Author** Savage, P.R.

**Journal:** IEEE Spectrum vol.40, no.7 p. 38-9

**Publisher:** IEEE,

**Publication Date:** July 2003 **Country of Publication:** USA

**CODEN:** IEESAM **ISSN:** 0018-9235

**SICI:** 0018-9235(200307)40:7L:38:DA;1-K

**Material Identity Number:** I094-2003-006

**Language:** English

**Subfile:** C

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DIALOG(R)File 2: INSPEC

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08670754 **INSPEC Abstract Number:** C2003-08-7210N-010

**Title:** Representing and querying semistructured Web data using nested tables with structural variants

**Author** da Silva, A.S.; Filha, I.M.R.E.; Laender, A.H.F.; Embley, D.W.

**Author Affiliation:** Dept. of Comput. Sci., Fed. Univ. of Minas Gerais, Belo Horizonte, Brazil

**Conference Title:** Conceptual Modeling - ER 2002. 21st International Conference on Conceptual Modeling. Proceedings (Lecture Notes in Computer Science Vol.2503) p. 135-51

**Editor(s):** Spaccapietra, S.; March, S.T.; Kambayashi, Y.

**Publisher:** Springer-Verlag, Berlin, Germany

**Publication Date:** 2002 **Country of Publication:** Germany xx+480 pp.

**ISBN:** 3 540 44277 4 **Material Identity Number:** XX-2002-03428

**Conference Title:** Conceptual Modeling - ER 2002. 21st International Conference on Conceptual

Modeling. Proceedings

**Conference Date:** 7-11 Oct. 2002 **Conference Location:** Tampere, Finland

**Language:** English

**Subfile:** C

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DIALOG(R)File 2: INSPEC

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08531028 **INSPEC Abstract Number:** C2003-03-6160D-008

**Title:** A smarter DB2 [database automation]

**Author** Lightstone, S.S.; Lohman, G.M.; Smith, B.F.; Horman, R.; Teng, J.

**Author Affiliation:** IBM Canada Toronto Lab., Ont., Canada

**Journal:** DB2 Magazine vol.7, no.4 p. 32-41

**Publisher:** Miller Freeman ,

**Publication Date:** 2002 **Country of Publication:** USA

**CODEN:** DBMAF5

**Material Identity Number:** G132-2002-004

**Language:** English

**Subfile:** C

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DIALOG(R)File 2: INSPEC

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08472290 **INSPEC Abstract Number:** C2003-01-6160B-009

**Title:** Transaction processing in mobile, heterogeneous database systems

**Author** Lim, J.B.; Hurson, A.R.

**Author Affiliation:** MJL Technol., Seoul, South Korea

**Journal:** IEEE Transactions on Knowledge and Data Engineering vol.14, no.6 p. 1330-46

**Publisher:** IEEE ,

**Publication Date:** Nov.-Dec. 2002 **Country of Publication:** USA

**CODEN:** ITKEEH **ISSN:** 1041-4347

**SICI:** 1041-4347(200211/12)14:6L:1330:TPMH;1-W

**Material Identity Number:** N571-2002-007

**U.S. Copyright Clearance Center Code:** 1041-4347/02/\$17.00

**Language:** English

**Subfile:** C

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DIALOG(R)File 2: INSPEC

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08340636 **INSPEC Abstract Number:** C2002-09-6160M-002  
**Title:** WebDB: a system for querying semi-structured data on the web  
**Author** Wen-Syan Li; Junho Shim; Selcuk Candan, K.  
**Author Affiliation:** C & C Res. Labs., NEC U.S.A. Inc, San Jose, CA, USA  
**Journal:** Journal of Visual Languages and Computing vol.13, no.1 p. 3-33  
**Publisher:** Academic Press ,  
**Publication Date:** Feb. 2002 **Country of Publication:** UK  
**CODEN:** JVLCE7 **ISSN:** 1045-926X  
**SICI:** 1045-926X(200202)13:1L:3:WSQS;1-#  
**Material Identity Number:** N730-2002-002  
**U.S. Copyright Clearance Center Code:** 1045-926X/02  
**Language:** English  
**Subfile:** C  
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08012643 **INSPEC Abstract Number:** C2001-09-7210N-060  
**Title:** Performance issues of a Web database  
**Author** Li, Y.; Lu, K.  
**Author Affiliation:** Sch. of Comput. Inf. Syst. & Manage., South Bank Univ., London, UK  
**Conference Title:** Database and expert systems applications. 11th International Conference, DEXA 2000. Proceedings (Lecture Notes in Computer Science Vol.1873) p. 825-34  
**Editor(s):** Ibrahim, M.; Kung, J.; Revell, N.  
**Publisher:** Springer-Verlag , Berlin, Germany  
**Publication Date:** 2000 **Country of Publication:** Germany xix+1003 pp.  
**ISBN:** 3 540 67978 2 **Material Identity Number:** XX-2001-01532  
**Conference Title:** Database and Expert Systems Applications. 11th International Conference, DEXA 2000. Proceedings  
**Conference Date:** 4-8 Sept. 2000 **Conference Location:** London, UK  
**Language:** English  
**Subfile:** C  
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 DIALOG(R)File 2: INSPEC  
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08000192 **INSPEC Abstract Number:** C2001-09-6160J-002  
**Title:** Sort-loops: a new reference based join algorithm  
**Author** Yang Guo-gui; Wu Quan-yuan  
**Author Affiliation:** Coll. of Comput., Nat. Univ. of Defense Technol., Changsha, China  
**Journal:** Acta Electronica Sinica vol.29, no.5 p. 615-18  
**Publisher:** Chinese Inst. Electron ,

**Publication Date:** May 2001 **Country of Publication:** China  
**CODEN:** TTHPAG **ISSN:** 0372-2112  
**SICI:** 0372-2112(200105)29:5L.615:SLRB;1-H  
**Material Identity Number:** B902-2001-007  
**Language:** Chinese  
**Subfile:** C  
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DIALOG(R)File 2: INSPEC

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07708785 **INSPEC Abstract Number:** C2000-10-7250R-059

**Title:** Associative query for multi-version Web documents

**Author** Yu Zhang; Kang Zhang

**Author Affiliation:** Dept. of Comput., Macquarie Univ., Sydney, NSW, Australia

**Conference Title:** Intensional Programming II. Based on the Papers at ISLIP'99 p. 55-64

**Editor(s):** Gergatsoulis, M.; Rondogiannis, P.

**Publisher:** World Scientific, Singapore

**Publication Date:** 2000 **Country of Publication:** Singapore viii+321 pp.

**ISBN:** 981 02 4095 3 **Material Identity Number:** XX-1999-03082

**Conference Title:** Proceedings of Intensional Programming II

**Conference Date:** 28-30 June 1999 **Conference Location:** Demokritos, Greece

**Language:** English

**Subfile:** C

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5/3/16

DIALOG(R)File 2: INSPEC

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07545611 **INSPEC Abstract Number:** C2000-05-7250N-006

**Title:** ReQueSS: relational querying of semi-structured data

**Author** Sunderraman, R.

**Author Affiliation:** Dept. of Comput. Sci., Georgia State Univ., Atlanta, GA, USA

**Conference Title:** Proceedings of 16th International Conference on Data Engineering (Cat. No.00CB37073) p. 664-5

**Publisher:** IEEE Comput. Soc., Los Alamitos, CA, USA

**Publication Date:** 2000 **Country of Publication:** USA xxii+703 pp.

**ISBN:** 0 7695 0506 6 **Material Identity Number:** XX-2000-00609

**U.S. Copyright Clearance Center Code:** 0 7695 0506 6/2000/\$10.00

**Conference Title:** Proceedings 16th International Conference on Data Engineering

**Conference Sponsor:** IEEE Comput. Soc. Tech. Committee on Data Eng

**Conference Date:** 29 Feb.-3 March 2000 **Conference Location:** San Diego, CA, USA

**Language:** English

**Subfile:** C

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5/3/17

DIALOG(R)File 2: INSPEC

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07455981 **INSPEC Abstract Number:** C2000-02-7210L-040

**Title:** Access with ACCESS. Microsoft ACCESS 2000 database software in your library

**Author** Holtsmark, E.

**Author Affiliation:** O-Tech Int. Ltd., McLean, VA, USA

**Journal:** Library Computing vol.18, no.1 p. 77-80

**Publisher:** Sage Publications ,

**Publication Date:** 1999 **Country of Publication:** USA

**CODEN:** LICOFW **ISSN:** 0742-5759

**SICI:** 0742-5759(1999)18:1L.77:AWAM;1-W

**Material Identity Number:** H418-1999-001

**U.S. Copyright Clearance Center Code:** 0742-5759/99/\$0.50+.10

**Language:** English

**Subfile:** C

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5/3/18

DIALOG(R)File 2: INSPEC

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07346573 **INSPEC Abstract Number:** C1999-10-7330-210

**Title:** The advanced Web query system of GPCRDB

**Author** Dunren Che; Yangjun Chen; Aberer, K.; Eisner, H.

**Author Affiliation:** GMD-IPSI, Darmstadt, Germany

**Conference Title:** Proceedings. Eleventh International Conference on Scientific and Statistical Database Management p. 281

**Publisher:** IEEE Comput. Soc , Los Alamitos, CA, USA

**Publication Date:** 1999 **Country of Publication:** USA xiii+287 pp.

**ISBN:** 0 7695 0046 3 **Material Identity Number:** XX-1999-02058

**U.S. Copyright Clearance Center Code:** 0 7695 0046 3/99/\$10.00

**Conference Title:** Proceedings of Eleventh International Conference on Scientific and Statistical Database Management'99

**Conference Sponsor:** Case Western Univ.; ACM SIGMOD; VLDB Endowment

**Conference Date:** 28-30 July 1999 **Conference Location:** Cleveland, OH, USA

**Language:** English

**Subfile:** C

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5/3/19

DIALOG(R)File 2: INSPEC

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07310262 **INSPEC Abstract Number:** B1999-09-6210L-061; C1999-09-5620W-040

**Title: A World-Wide Blackboard****Author** De Bosschere, K.; Theeten, B.; Geens, T.; D'Halleweyn, R.**Author Affiliation:** Dept. of Electron. & Inf. Syst., Ghent Univ., Belgium**Journal:** International Journal of Computers & Applications vol.21, no.1 p. 19-24**Publisher:** Acta Press ,**Publication Date:** 1999 **Country of Publication:** USA**CODEN:** IJCAFW **ISSN:** 1206-212X**SICI:** 1206-212X(1999)21:1L:19:WWB;1-U**Material Identity Number:** G312-1999-002**Language:** English**Subfile:** B C

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5/3/20

DIALOG(R)File 2: INSPEC

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07233211 **INSPEC Abstract Number:** C1999-06-6160D-007**Title:** Processing operations with restrictions in RDBMS without external sorting: the Tetris algorithm**Author** Markl, V.; Zirkel, M.; Bayer, R.**Author Affiliation:** Bayerisches Forschungszentrum für Wissensbasierte Syst., München, Germany**Conference Title:** Proceedings 15th International Conference on Data Engineering (Cat.

No.99CB36337) p. 562-71

**Editor(s):** Kitsuregawa, M.; Maciaszek, L.; Papazoglou, M.; Pu, C.**Publisher:** IEEE Comput. Soc , Los Alamitos, CA, USA**Publication Date:** 1999 **Country of Publication:** USA xxiii+648 pp.**ISBN:** 0 7695 0071 4 **Material Identity Number:** XX-1999-00800**U.S. Copyright Clearance Center Code:** 0 7695 0071 4/99/\$10.00**Conference Title:** Proceedings of IEEE Computer Society 15th International Conference on Data Engineering**Conference Sponsor:** IEEE Comput. Soc. Tech. Committee on Data Eng**Conference Date:** 23-26 March 1999 **Conference Location:** Sydney, NSW, Australia**Language:** English**Subfile:** C

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5/3/21

DIALOG(R)File 2: INSPEC

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07167093 **INSPEC Abstract Number:** C1999-03-6160M-013**Title:** WebDB hypermedia database system**Author** Wen-Syan Li; Yi-Leh Wu; Junho Shim; Hirata, K.; Mukherjea, S.; Agrawal, D.; Hara, Y.; Iot, R.; Kimura, Y.; Shimazu, K.; Saito, Y.**Author Affiliation:** Dept. of Multimedia Software, NEC USA Inc., San Jose, CA, USA**Journal:** IEICE Transactions on Information and Systems vol.E82-D, no.1 p. 266-77

**Publisher:** Inst. Electron. Inf. & Commun. Eng ,  
**Publication Date:** Jan. 1999 **Country of Publication:** Japan  
**CODEN:** ITISEF **ISSN:** 0916-8532  
**SICI:** 0916-8532(199901)E82D:1L.266:WHDS;1-0  
**Material Identity Number:** P713-1999-002  
**Language:** English  
**Subfile:** C  
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5/3/22

DIALOG(R)File 2: INSPEC

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07161557 **INSPEC Abstract Number:** C1999-03-6160D-016

**Title:** Physical structure design for relational databases

**Author** Charczuk, J.

**Author Affiliation:** Rodan Syst., Warsaw, Poland

**Conference Title:** Advances in Databases and Information Systems. Second East European Symposium, ADBIS'98. Proceedings p. 357-62

**Editor(s):** Litwin, W.; Morzy, T.; Vossen, G.

**Publisher:** Springer-Verlag , Berlin, Germany

**Publication Date:** 1998 **Country of Publication:** Germany xiv+368 pp.

**ISBN:** 3 540 64924 7 **Material Identity Number:** XX-1998-02544

**Conference Title:** Advances in Databases and Information Systems. Second East European Symposium, ADBIS'98. Proceedings

**Conference Sponsor:** State Committee for Sci. Res. (KBN)

**Conference Date:** 7-10 Sept. 1998 **Conference Location:** Poznan, Poland

**Language:** English

**Subfile:** C

Copyright 1999, IEE

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DIALOG(R)File 2: INSPEC

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07160580 **INSPEC Abstract Number:** C1999-03-6160-011

**Title:** SGML template driven database extraction; a new approach to report generation

**Author** Chahuneau, F.; Guennou, S.; Blavier, A.

**Author Affiliation:** AIS S.A., France

**Conference Title:** SGML Europe '97. Conference Proceedings p. 311-16

**Publisher:** Graphic Commun. Assoc , Alexandria, VA, USA

**Publication Date:** 1996 **Country of Publication:** USA 341 pp.

**Material Identity Number:** XX-1997-00997

**Conference Title:** Proceedings of SGML '97. The Next Decade - Pushing the Envelope

**Conference Date:** 13-15 May 1997 **Conference Location:** Barcelona, Spain

**Language:** English

**Subfile:** C

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5/3/24

DIALOG(R)File 2: INSPEC

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07047747 **INSPEC Abstract Number:** C9811-7250R-011**Title:** Fuzzy data mining for querying and retrieval of research archival information**Author** Smith, M.H.; Rubin, S.; Trajkovic, L.**Author Affiliation:** Dept. of Electr. Eng. & Comput. Sci., California Univ., Berkeley, CA, USA**Conference Title:** 1998 Conference of the North American Fuzzy Information Processing Society - NAFIPS (Cat. No.98TH8353) p. 140-5**Editor(s):** Bezdek, J.; Hall, L.O.**Publisher:** IEEE, New York, NY, USA**Publication Date:** 1998 **Country of Publication:** USA 371 pp.**ISBN:** 0 7803 4453 7 **Material Identity Number:** XX98-02581**U.S. Copyright Clearance Center Code:** 0 7803 4453 7/98/\$10.00**Conference Title:** 1998 Conference of the North American Fuzzy Information Processing Society - NAFIPS (Cat. No.98TH8353)**Conference Sponsor:** NAFIPS-North American Fuzzy Inf. Process. Soc.; IEEE Neural Networks Council; IEEE Syst. Man & Cybernetics Soc**Conference Date:** 20-21 Aug. 1998 **Conference Location:** Pensacola Beach, FL, USA**Language:** English**Subfile:** C

Copyright 1998, IEE

5/3/25

DIALOG(R)File 2: INSPEC

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06950650 **INSPEC Abstract Number:** C9808-7110-005**Title:** Introduction to programming ODBC on Windows 95/NT/NT server for database distribution and access via the Web**Author** Hicks, T.E.**Author Affiliation:** Dept. of Comput. Sci., Trinity Univ., San Antonio, TX, USA**Journal:** Journal of Computing in Small Colleges **Conference Title:** J. Comput. Small Coll. (USA) vol.13, no.4 p. 28-48**Publisher:** Muhlenberg Coll,**Publication Date:** March 1998 **Country of Publication:** USA**Material Identity Number:** M855-98001**Conference Title:** Ninth Annual CCSC South Central Conference**Conference Date:** 17-18 April 1998 **Conference Location:** Jackson, MS, USA**Language:** English**Subfile:** C

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Dialog eLink:  SCIENCE @ DIRECT**USPTO Full Text Retrieval Options**

5/3/26

DIALOG(R)File 2: INSPEC

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06949293 **INSPEC Abstract Number:** C9808-7210-014

**Title:** Facilitating complex Web queries through visual user interfaces and query relaxation

**Author** Li, W.-S.; Shim, J.

**Author Affiliation:** Dept. of Comput. & Commun., NEC USA Inc., San Jose, CA, USA

**Journal:** Computer Networks and ISDN Systems **Conference Title:** Comput. Netw. ISDN Syst. (Netherlands) vol.30, no.1-7 p. 149-59

**Publisher:** Elsevier,

**Publication Date:** April 1998 **Country of Publication:** Netherlands

**CODEN:** CNISE9 **ISSN:** 0169-7552

**SICI:** 0169-7552(199804)30:1/7L:149:FCQT;1-W

**Material Identity Number:** I876-98002

**U.S. Copyright Clearance Center Code:** 0169-7552/98/\$19.00

**Conference Title:** 7th International World Wide Web Conference

**Conference Date:** 14-18 April 1998 **Conference Location:** Brisbane, Qld., Australia

**Language:** English

**Subfile:** C

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DIALOG(R)File 2: INSPEC

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06927552 **INSPEC Abstract Number:** C9807-7250N-002

**Title:** WebDB: a Web query system and its modeling, language, and implementation

**Author** Wen-Syan Li; Junho Shim; Candan, K.S.; Hara, Y.

**Author Affiliation:** C&C Res. Lab., NEC USA Inc., San Jose, CA, USA

**Conference Title:** Proceedings. IEEE International Forum on Research and Technology. Advances in Digital Libraries - ADL'98 (Cat. No.98TB100235) p. 216-27

**Publisher:** IEEE Comput. Soc., Los Alamitos, CA, USA

**Publication Date:** 1998 **Country of Publication:** USA x+328 pp.

**ISBN:** 0 8186 8464 X **Material Identity Number:** XX98-01044

**U.S. Copyright Clearance Center Code:** 0 8186 8464 X/98/\$10.00

**Conference Title:** Proceedings IEEE International Forum on Research and Technology Advances in Digital Libraries -ADL'98-

**Conference Sponsor:** IEEE Comput. Soc. Tech. Committee on Digital Libr.; NASA Goddard Space Flight Center; Nat. Libr. Med.; Alexandria Digital Libr.; Libr. Congress; CEDIS; Hughes Aircraft; IBM

**Conference Date:** 22-24 April 1998 **Conference Location:** Santa Barbara, CA, USA

**Language:** English

**Subfile:** C

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5/3/28

DIALOG(R)File 2: INSPEC

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06843777 **INSPEC Abstract Number:** C9804-7250N-004

**Title:** Semistructured and structured data in the Web: going back and forth

**Author** Atzeni, P.; Mecca, G.; Merialdo, P.

**Author Affiliation:** Rome Univ., Italy

**Journal:** SIGMOD Record **Conference Title:** SIGMOD Rec. (USA) vol.26, no.4 p. 16-23

**Publisher:** ACM,

**Publication Date:** Dec. 1997 **Country of Publication:** USA

**CODEN:** SRECD8 **ISSN:** 0163-5808

**SICI:** 0163-5808(199712)26:4L:16:SSDG;1-M

**Material Identity Number:** A660-98001

**Conference Title:** Semi-Structured Data Workshop held in conjunction with SIGMOD '97

**Conference Date:** May 1997 **Conference Location:** Tucson, AZ, USA

**Language:** English

**Subfile:** C

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5/3/29

DIALOG(R)File 2: INSPEC

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06753907 **INSPEC Abstract Number:** C9712-6160S-054

**Title:** Indexing of handwritten document images

**Author** Syeda-Mahmood, T.

**Author Affiliation:** Xerox Webster Res. Center, NY, USA

**Conference Title:** Proceedings Workshop on Document Image Analysis (DIA'97) (Cat. No.97TB100153) p. 66-73

**Publisher:** IEEE Comput. Soc., Los Alamitos, CA, USA

**Publication Date:** 1997 **Country of Publication:** USA viii+108 pp.

**ISBN:** 0 8186 8055 5 **Material Identity Number:** XX97-02667

**U.S. Copyright Clearance Center Code:** 0 8186 8055 5/97/\$10.00

**Conference Title:** Proceedings Workshop on Document Image Analysis (DIA'97)

**Conference Sponsor:** IEEE Comput. Soc

**Conference Date:** 20 June 1997 **Conference Location:** San Juan, Puerto Rico

**Language:** English

**Subfile:** C

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5/3/30

DIALOG(R)File 2: INSPEC

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06729907 **INSPEC Abstract Number:** C9712-7330-083

**Title:** Query access to relational databases via the World-Wide Web

**Author** Stubbs, M.; Benson, B.J.

**Author Affiliation:** Center for Limnology, Wisconsin Univ., Madison, WI, USA

**Conference Title:** Proceedings of Eco-Informa '96. Global Networks for Environmental Information Part vol.1 p. 105-9 vol.1

**Publisher:** Environ. Res. Inst. Michigan, Ann Arbor, MI, USA

**Publication Date:** 1996 **Country of Publication:** USA 2 vol. xxxviii+1027 pp.

**ISBN:** 0 9603590 7 9 **Material Identity Number:** XX96-03170  
**Conference Title:** Proceedings of Meeting on Global Networks for Environmental Information:  
 Bridging the Gap Between Knowledge and Application  
**Conference Sponsor:** Environ. Rest. Inst. Michigan, ERIM; Epcot Sci. & Technol.; NASA; et al  
**Conference Date:** 4-7 Nov. 1996 **Conference Location:** Lake Buena Vista, FL, USA  
**Language:** English  
**Subfile:** C  
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5/3/31

DIALOG(R)File 2: INSPEC

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06524135 **INSPEC Abstract Number:** A9708-9590-007, C9704-7350-046

**Title:** The ADS article service data holdings and access methods

**Author** Accomazzi, A.; Grant, C.S.; Eichhorn, G.; Kurtz, M.J.; Murray, S.S.

**Author Affiliation:** Smithsonian Astrophys. Obs., Cambridge, MA, USA

**Journal:** Astronomical Society of the Pacific Conference Series **Conference Title:** Astron. Soc. Pac.  
 Conf. Ser. (USA) vol.101 p. 558-61

**Publisher:** Astron. Soc. Pacific ,

**Publication Date:** 1996 **Country of Publication:** USA

**ISSN:** 1050-3390

**SICI:** 1050-3390(1996)101L:558:ASDH;1-3

**Material Identity Number:** M537-96028

**Conference Title:** Astronomical Data Analysis Software and Systems V

**Conference Date:** 23-25 Oct. 1995 **Conference Location:** Tucson, AZ, USA

**Language:** English

**Subfile:** A C

Copyright 1997, FIZ Karlsruhe

5/3/32

DIALOG(R)File 2: INSPEC

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06274192 **INSPEC Abstract Number:** C9607-6130B-037

**Title:** Database visualization and VRML

**Author** Graham, C.

**Author Affiliation:** Silicon Graphics Inc., Mountain View, CA, USA

**Conference Title:** 1995 Symposium on the Virtual Reality Modeling Language (VRML '95) p. 21-4

**Publisher:** ACM , New York, NY, USA

**Publication Date:** 1996 **Country of Publication:** USA 139 pp.

**ISBN:** 0 89791 818 5 **Material Identity Number:** XX96-00048

**U.S. Copyright Clearance Center Code:** 0 89791 818 5/95/12.\$3.50

**Conference Title:** Proceedings of 1995 VMRL Workshop

**Conference Sponsor:** San Diego Supercomput. Center; ACM

**Conference Date:** 14-15 Dec. 1995 **Conference Location:** San Diego, CA, USA

**Language:** English

**Subfile: C**

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DIALOG(R)File 2: INSPEC

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06208465 **INSPEC Abstract Number:** B9604-6210R-040, C9604-6130M-022

**Title:** Multimedia digital library systems for the global information network

**Author** Fujisawa, H.; Mishina, Y.; Ashizawa, M.; Kato, K.

**Author Affiliation:** Central Res. Lab., Hitachi Ltd., Japan

**Journal:** Hitachi Review vol.44, no.5 p. 273-80

**Publisher:** Hitachi ,

**Publication Date:** Oct. 1995 **Country of Publication:** Japan

**CODEN:** HITAAQ **ISSN:** 0018-277X

**SICI:** 0018-277X(199510)44:5L:273:MDLS;1-1

**Material Identity Number:** H006-96001

**Language:** English

**Subfile:** B C

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5/3/34

DIALOG(R)File 2: INSPEC

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05950988 **INSPEC Abstract Number:** C9506-7250L-015

**Title:** Retrieval of document images using layout knowledge

**Author** Herrmann, P.; Schlageter, G.

**Author Affiliation:** BASF AG, Dept., Ludwigshafen, Germany  
p. 537-40

**Publisher:** IEEE Comput. Soc. Press , Los Alamitos, CA, USA

**Publication Date:** 1993 **Country of Publication:** USA xx+963 pp.

**ISBN:** 0 8186 4960 7

**U.S. Copyright Clearance Center Code:** 0 8186 4960 7/93/\$3.00

**Conference Title:** Proceedings of 2nd International Conference on Document Analysis and Recognition (ICDAR '93)

**Conference Sponsor:** IAPR TC-11 & TC-10; IEEE Comput. Soc. & IGS

**Conference Date:** 20-22 Oct. 1993 **Conference Location:** Tsukuba Science City, Japan

**Language:** English

**Subfile:** C

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DIALOG(R)File 2: INSPEC

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05841755 **INSPEC Abstract Number:** C9502-7300-002

**Title:** Configurable data analysis and visualization system

**Author** Edwards, D.P.; Bridenstine, D.; Littledike, L.

**Author Affiliation:** Div. of Comput. Sci., Utah State Univ., Logan, UT, USA

**Journal:** Proceedings of the SPIE - The International Society for Optical Engineering vol.2178 p. 48-57

**Publication Date:** 1994 **Country of Publication:** USA

**CODEN:** PSISDG **ISSN:** 0277-786X

**U.S. Copyright Clearance Center Code:** 0 8194 1473 5/94/\$6.00

**Conference Title:** Visual Data Exploration and Analysis

**Conference Sponsor:** SPIE; IS&T

**Conference Date:** 7-8 Feb. 1994 **Conference Location:** San Jose, CA, USA

**Language:** English

**Subfile:** C

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DIALOG(R)File 2: INSPEC

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05008878 **INSPEC Abstract Number:** C91072793

**Title:** Architectures of the object-oriented database management systems

**Author** Makinouchi, A.

**Author Affiliation:** Dept. of Comput. Sci. & Commun. Eng., Kyushu Univ., Fukuoka, Japan

**Journal:** Joho Shori vol.32, no.5 p. 514-22

**Publication Date:** 1991 **Country of Publication:** Japan

**CODEN:** JOSHA4 **ISSN:** 0447-8053

**Language:** Japanese

**Subfile:** C

5/3/37

DIALOG(R)File 2: INSPEC

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03735225 **INSPEC Abstract Number:** C86048688

**Title:** Distributed Office by Example (D-OBE)

**Author** Kantorowitz, E.; Maryanski, F.; Shasha, D.

**Author Affiliation:** IBM Thomas J. Watson Res. Center, Yorktown Heights, NY, USA

**Conference Title:** International Conference on Data Engineering (Cat. No.86CH2261-6) p. 166-74

**Publisher:** IEEE Comput. Soc. Press, Washington, DC, USA

**Publication Date:** 1986 **Country of Publication:** USA xvii+732 pp.

**ISBN:** 0 8186 0655 X

**U.S. Copyright Clearance Center Code:** CH2261-6/86/0000-0166\$01.00

**Conference Sponsor:** IEEE

**Conference Date:** 5-7 Feb. 1986 **Conference Location:** Los Angeles, CA, USA  
**Language:** English  
**Subfile:** C

5/3/38

DIALOG(R)File 2: INSPEC

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02108954 **INSPEC Abstract Number:** C77024822

**Title:** A relational database system for pictures

**Author** Chang, S.K.; Donato, N.; McCormick, B.H.; Reuss, J.; Rocchetti, R.

**Author Affiliation:** Dept. of Information Engng., Univ. of Illinois, Chicago, IL, USA

**Conference Title:** Proceedings of the Workshop on Picture Data Description and Management p. 142-9

**Publisher:** IEEE , New York, NY, USA

**Publication Date:** 1977 **Country of Publication:** USA iv+192 pp.

**Conference Sponsor:** IEEE

**Conference Date:** 21-22 April 1977 **Conference Location:** Chicago, IL, USA

**Language:** English

**Subfile:** C

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Set	Items	Description
S1	34	BUFFER (W) CACHE
S2	6	S1 AND (DATABASE? OR (DATA () BASE?))
S3	0	S2 AND PAGE\$

? t s2/medium/1-6

2/3/1

DIALOG(R)File 144: Pascal

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17545824 PASCAL No.: 06-0132689

Improving disk throughput in data-intensive servers  
10th international symposium on high performance computer architecture :  
14-18 February 2004, Madrid, Spain

CARRERA Enrique V; BIANCHINI Ricardo  
Department of Computer Science Rutgers University, Piscataway, NJ  
08854-8019, United States  
IEEE computer society, United States  
International symposium on high performance computer architecture, 10 (Madrid ESP) 2004-02-14  
2004 130-141  
Publisher: IEEE Computer Society, Los Alamitos CA  
Language: English

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DIALOG(R)File 144: Pascal

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17479620 PASCAL No.: 06-0063591

Offloading bloom filter operations to network processor for parallel  
query processing in cluster of workstations  
High performance computing : HiPC 2005 : 12th international conference,  
Goa, India, December 18-21, 2005 : proceedings

SANTHOSH KUMAR V; THAZHUTHAVEETIL M J; GOVINDARAJAN R

PRASANNA Viktor K, ed  
Supercomputer Education and Research Centre, Indian Institute of Science,  
Bangalore 560 012, India; Department of Computer Science and Automation,  
Indian Institute of Science, Bangalore 560 012, India  
High performance computing. International conference, 12 (Goa IND)  
2005-12-18  
Journal: Lecture notes in computer science,  
2005, 3769 170-179

Language: English

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2/3/3

DIALOG(R)File 144: Pascal

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16684994 PASCAL No.: 04-0337478

Second-level buffer cache management

ZHOU Y; CHEN Z; LI K

Department of Computer Science University of Illinois, Urbana-Champaign,  
IL 61801, United States

Journal: IEEE Transactions on Parallel and Distributed  
Systems, 2004, 15

(6) 505-519

Language: English

2/3/4

DIALOG(R)File 144: Pascal

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15762127 PASCAL No.: 02-0474962

LIRS: An efficient low inter-reference recency set replacement policy to  
improve buffer cache performance

JIANG S; ZHANG X

Department of Computer Science College of William and Mary, Williamsburg,  
VA 23187-8795, United States

ACM SIGMETRICS, Unknown

ACM SIGMETRICS 2002 International Conference on Measurement and Modeling  
of Computer Systems (Marina Del Rey, CA, United States)  
1902-06-15/1902-06-19

Journal: Performance Evaluation Review,  
2002, 30 (1)

31-42

Language: English

2/3/5

DIALOG(R)File 144: Pascal

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15660439 PASCAL No.: 02-0366357

Generic database cost models for hierarchical memory systems

MANEGOLD Stefan; BONCZ Peter; KERSTEN Martin L  
CWI, P.O. Box 94079, 1090 GB Amsterdam, Netherlands  
Journal: Report - Information systems,

2002 (3) 1-25

Language: English

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2/3/6

DIALOG(R)File 144: Pascal

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15080013 PASCAL No.: 01-0239470

Towards application/file-level characterization of block references: A  
case for fine-grained buffer management

CHOI J; NOH S H; MIN S L; CHO Y  
Sch. of Computer Science and Eng. Seoul National University, Seoul  
151-742, Korea, Republic of

ACM SIGMETRICS, Unknown

Proceedings ACM SIGMETRICS 2000 (Santa Clara, CA, United States)

1900-06-17/1900-06-21

Journal: Performance Evaluation Review,  
2000, 28 (1)

286-295

Language: English

? ds

Set	Items	Description
S1	38	BUFFER (W) CACHE
S2	4	S1 AND PAGE?

? t s2/medium/1-4

Dialog eLink:  **IEEE** USPTO Full Text Retrieval Options

2/3/1 (Item 1 from file: 34)

DIALOG(R)File 34: SciSearch(R) Cited Ref Sci

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16128874 Genuine Article#: 138VM No. References: 11

**PABC: Power-aware buffer cache management for low power consumption****Author:** Lee M (REPRINT) ; Seo E; Lee J; Kim JS**Corporate Source:** Georgia Inst Technol,Coll Comp,Atlanta//GA/30332 (REPRINT); Georgia Inst Technol,Coll Comp,Atlanta//GA/30332; Korea Adv Inst Sci & Technol,Dept Comp Sci,Taejon 305701//South Korea/**Journal:** IEEE TRANSACTIONS ON COMPUTERS , 2007 , V 56 , N4 ( APR ) , P 488-501**ISSN:** 0018-9340 **Publication date:** 20070400**Publisher:** IEEE COMPUTER SOC , 10662 LOS VAQUEROS CIRCLE, PO BOX 3014, LOS ALAMITOS, CA 90720-1314 USA**Language:** English **Document Type:** ARTICLE ( ABSTRACT AVAILABLE )

Dialog eLink:  **SCIENCE@DIRECT** USPTO Full Text Retrieval Options

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DIALOG(R)File 34: SciSearch(R) Cited Ref Sci

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13621181 Genuine Article#: 897VH No. References: 16

**A new NAND-type flash memory package with smart buffer system for spatial and temporal localities****Author:** Lee JH; Park GH; Kim SD**Corporate Source:** Gyeongsang Natl Univ,ERI Dept Control Instrumentat Engn,Seoul//South Korea/ ; Yonsei Univ,Dept Comp Sci,Seoul 120749//South Korea/ ( Leejh@gsnu.ac.kr; giho.park@samsung.com; sdkim@yonsei.ac.kr )**Journal:** JOURNAL OF SYSTEMS ARCHITECTURE , 2005 , V 51 , N2 ( FEB ) , P 111-123**ISSN:** 1383-7621 **Publication date:** 20050200**Publisher:** ELSEVIER SCIENCE BV , PO BOX 211, 1000 AE AMSTERDAM; NETHERLANDS**Language:** English **Document Type:** ARTICLE ( ABSTRACT AVAILABLE )

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12518097 **Genuine Article#:** 773MZ **No. References:** 16  
**Memory management for multi-threaded software DSM systems**

**Author:** Kee YS (REPRINT) ; Kim JS; Ha S

**Corporate Source:** Seoul Natl Univ,Sch Elect Engn & Comp Sci,Seoul 151742//South Korea/  
(REPRINT); Seoul Natl Univ,Sch Elect Engn & Comp Sci,Seoul 151742//South Korea/; Korea Adv Inst  
Sci & Technol,Div Comp Sci,Taejon 305701//South Korea/

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**ISSN:** 0167-8191 **Publication date:** 20040100

**Publisher:** ELSEVIER SCIENCE BV , PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS

**Language:** English **Document Type:** ARTICLE ( ABSTRACT AVAILABLE )

Dialog eLink: **USPTO Full Text Retrieval Options**

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**Author:** Ng WT (REPRINT) ; Chen PM

**Corporate Source:** UNIV MICHIGAN,DEPT ELECT ENGN & COMP SCI, COMP SCI & ENGN  
DIV, 1301 BEAL AVE/ANN ARBOR/MI/48109 (REPRINT)

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**Publisher:** SPRINGER VERLAG , 175 FIFTH AVE, NEW YORK, NY 10010

**Language:** English **Document Type:** ARTICLE ( ABSTRACT AVAILABLE )

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Set	Items	Description
S1	26	BUFFER (W) CACHE
S2	3	S1 AND PAGE?
S3	31958	(DATABASE? OR (DATA () BASE?))
S4	644	S3 AND PAGE?
S5	32	S4 AND TABLE?
S6	0	S5 AND (EXTENT OR EXTENTS)

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**Publisher:** Association for Computing Machinery, Inc. , One Astor Plaza, 1515 Broadway , New York , NY , 10036-5701

**Country Of Publication:** USA

**Publisher Url:** <http://www.acm.org/>

**Publisher Email:** SIGS@acm.org

**Document Type:** Journal Article

**Record Type:** Abstract

**Language:** English

**ISSN:** 1066-8888

**Electronic Issn:** 0949-877X

**File Segment:** Computer & Information Systems Abstracts

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**Country Of Publication:** USA  
**Publisher Url:** <http://www.acm.org/>  
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**Document Type:** Journal Article  
**Record Type:** Abstract  
**Language:** English  
**ISBN:** 1595934510  
**File Segment:** Computer & Information Systems Abstracts

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**Pages:** 861-868  
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**Publisher:** Association for Computing Machinery, Inc. , One Astor Plaza, 1515 Broadway , New York , NY , 10036-5701  
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**Document Type:** Journal Article  
**Record Type:** Abstract  
**Language:** English  
**File Segment:** Computer & Information Systems Abstracts

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**Language:** English

**ISSN:** 0163-5980

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Ma, Leo F H; Wong, Rita; Lau, Paul University Library System, The Chinese University of Hong Kong, Hong Kong, China

**Author Email:** leo-ma@cuhk.edu.hk

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**ISSN:** 1009-3095

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**Record Type:** Abstract

**Language:** English

**ISSN:** 1542-7730

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**Record Type:** Abstract

**Language:** English

**ISSN:** 1041-4347

**Electronic Issn:** NO

**File Segment:** Computer & Information Systems Abstracts

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**Document Type:** Journal Article

**Record Type:** Abstract

**Language:** English

**ISSN:** 0098-5589

**Electronic Issn:** NO

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